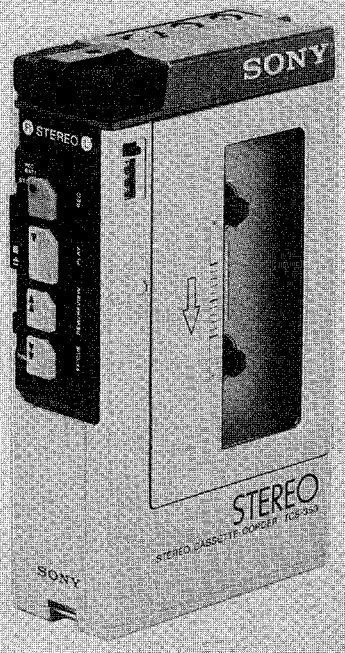


SPECIFICATIONS

Recording system	4-track 2-channel stereo
Speaker	4 cm (1 inches) dia
Fast rewinding time	Approx. 2 min. with Sony Cassette C-60
Frequency response	60 – 9,000 Hz 40 – 12,500 Hz (playback)
Input	Microphone input jack (stereo minijack) sensitivity 0.2 mV (–72 dB) for low impedance microphone
Output	Headphones jack (stereo minijack) load impedance 8 – 300 ohms
Power output (at 10 % harmonic distortion)	Headphones: 30 mW + 30 mW Speaker: 320 mW
Battery life (continuous playback hours)	Approx. 3.5 hours with Sony SUM-3(NS) New Super batteries or Eveready No. 1215 Heavy Duty batteries and 6.5 hours with Eveready AM 3 Alkaline batteries.
Power requirements	6 V dc, four IEC designation R6 (size AA) batteries AC power adaptor: Refer to the following chart to choose the correct adaptor for your area.

Country	AC power line voltage	Optional ac power adaptor
USA	120 V ac, 60 Hz	AC-9W
Canada	120 V ac, 60 Hz	AC-9 available in Canada
The United Kingdom	240 V ac, 50 Hz	AC-15A available in the United Kingdom
Continental European countries	220 V ac, 50 Hz	AC-456C available in European countries
Other countries	120 V ac (110, 220 or 240 V ac, adjustable by Sony personnel), 50/60 Hz	AC-9 available in Japan
	110, 120, 220 or 240 V ac, adjustable, 50/60 Hz	AC-4A available in other countries

car battery cord (optional)
DCC-127A for use with 12 V car battery

Tape Transport Mechanism Type	MT350-05

MICROFILM

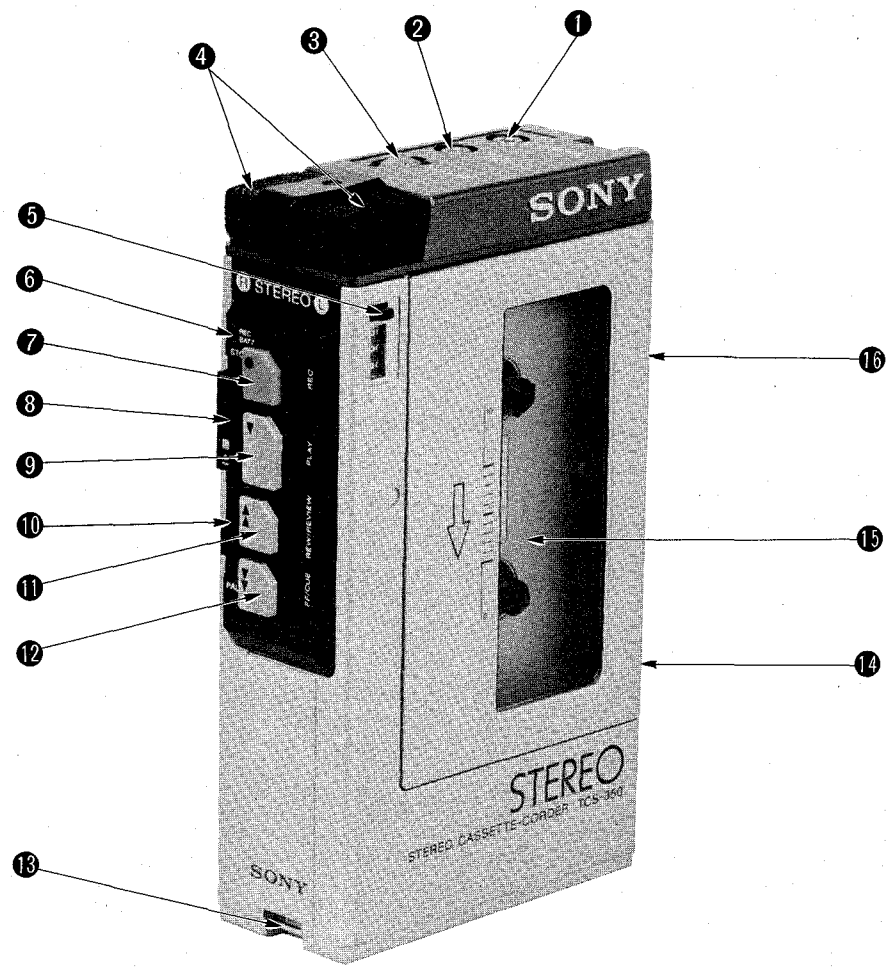
SERVICE MANUAL

FEATURES

- *Complete stereo recording and playback system* in this very compact cassette-corder.
- Built-in one point stereo microphone and an external microphone jack (stereo) for stereo recording.
- Stereo playback through the supplied stereo headphones.

SECTION 1
OUTLINE

1-1. PARTS IDENTIFICATION

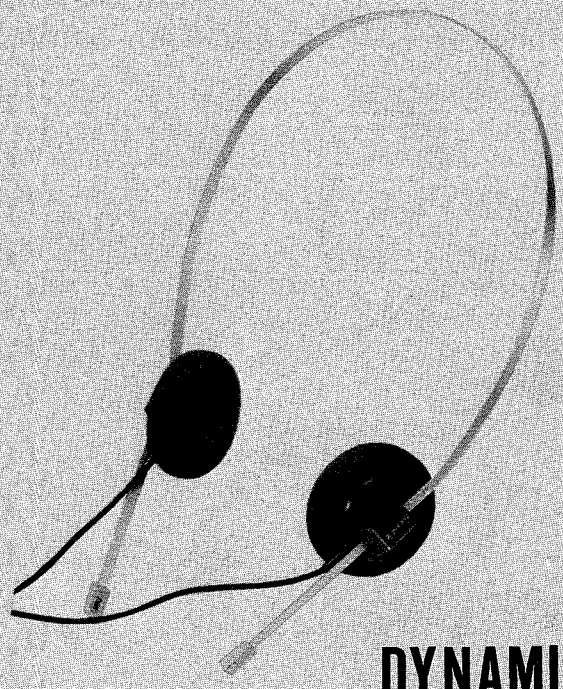


See photo [E] on the back cover.

❶ PHONES (headphones) jack
❷ MIC (STEREO) (microphone) jack
❸ VOLUME control
❹ Built-in microphones (R and L)
❺ Tape counter and reset button
❻ REC/BATT (record/battery) indicator
❼ ● REC (record) button
❽ ■ STOP/EJECT button
❾ ▼ PLAY (playback) button
❿ PAUSE switch
⓫ ▲ REW/REVIEW (rewind/review) button
⓬ ▼ FF/CUE (fast forward/cue) button
⓭ Carrying strap attachment (See the illustration F on the back cover)
⓮ DC IN 6 V (external power input) jack
⓯ Cassette holder
⓰ PB EQ (playback equalizer) selector

MDR-W3

US Model
Canadian Model
AEP Model
UK Model
E Model
Modèle US
Modèle Canadien
Modèle AEP
Modèle UK
Modèle E



DYNAMIC STEREO HEADPHONES
ECOUTEURS STEREO DYNAMIQUE

SPECIFICATIONS

Type:	Dynamic
Driver Units:	23 mm dia., dome
Impedance:	25 ohms at 1 kHz
Sensitivity:	100 dB/mW
Rated Power:	0.04 W
Power Handling Capacity:	0.1 W
Frequency Response:	20 – 20,000 Hz
Plug:	Stereo mini plug
Cord Length:	1 m
Weight:	26 g (without cord)

Type:	Dynamique
Unites:	Membrane dôme de 23 m diam.
Impédance:	25 ohms à 1 kHz
Sensibilité:	100 dB/mW
Puissance nominale:	0.04 W
Puissance admissible:	0.1 W
Réponse en fréquence:	20 – 20,000 Hz
Fiche:	Fiche mini format stéréo
Longueur du cordon:	1 m
Poids:	Env. 26 g (sans le cordon)

MICROFILM

SONY®
SERVICE MANUAL

1. DISASSEMBLY

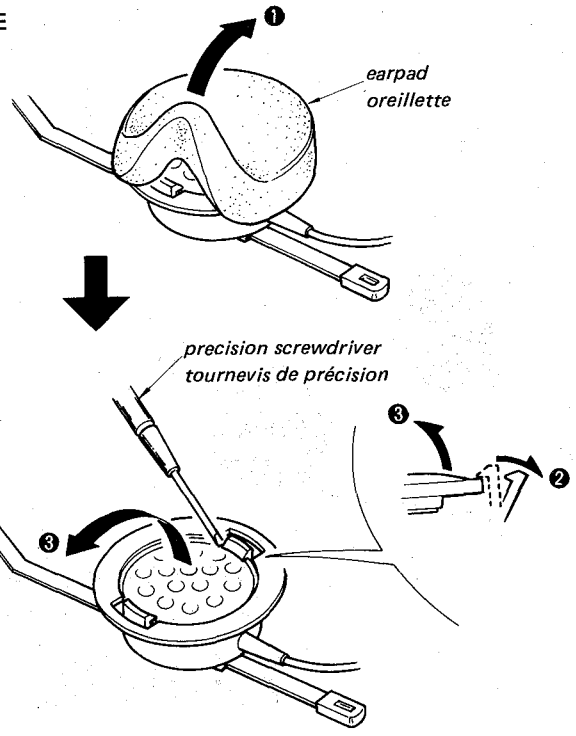
DEMONTAGE

Note: Follow the disassembly procedure in the numerical order given.

Suivre la procédure de démontage dans l'ordre numérique donne.

1-1. DRIVER REMOVAL

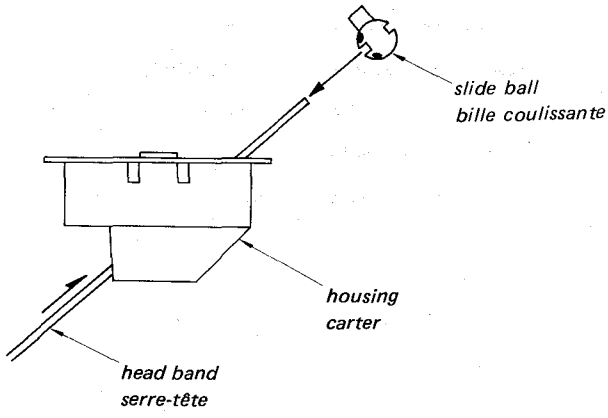
RETRAIT DE L'UNITE



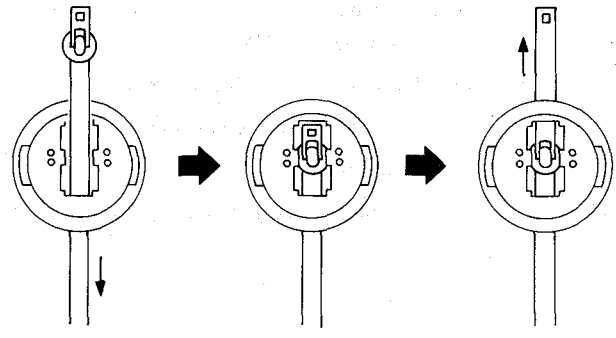
2. REPLACEMENT

REMPLACEMENT

(1)



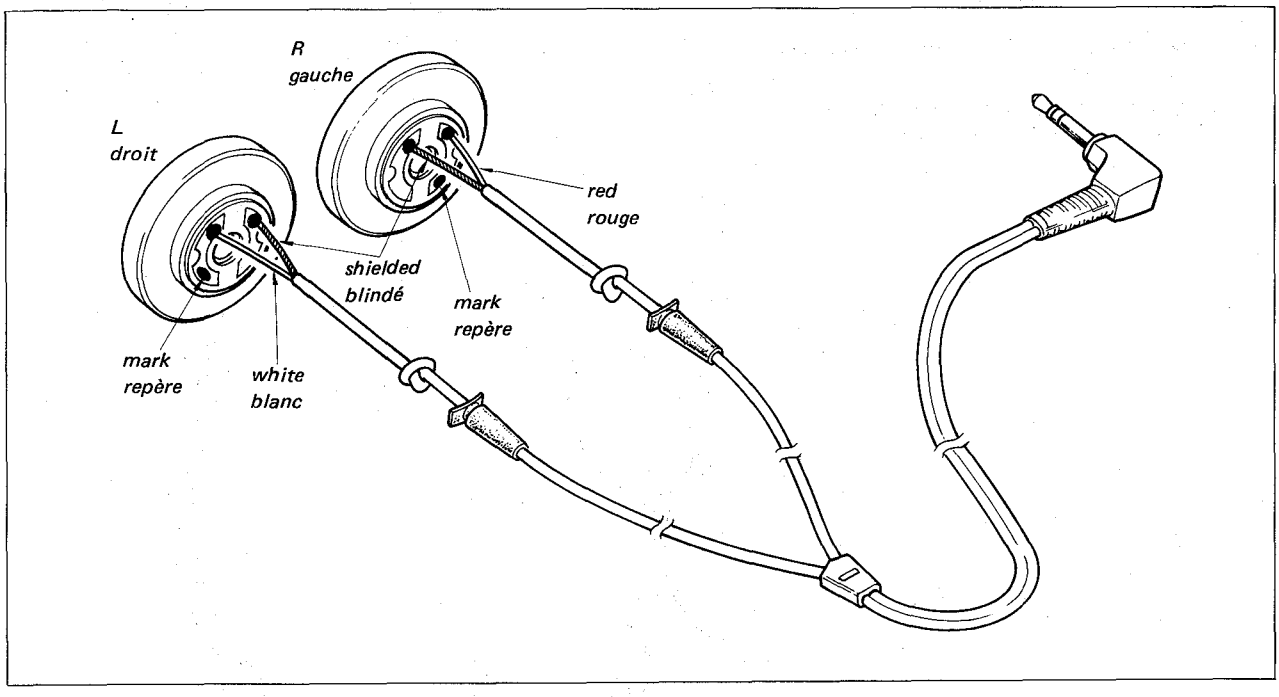
(2)



Push the slide ball into the groove.

Pressure la bille coulissante dans la rainure.

3. WIRING DIAGRAM
SCHEMA DE CONNEXIONS



4. PARTS LIST
LISTES DES PIECES

GENERAL SECTION

No.	Part No.	Description
1	2-373-015-00	BUSHING
2	2-376-313-00	HOUSING
3	2-376-315-00	STOPPER, SLIDE (L)
4	2-376-316-00	(BROWN) ... PAD, EAR
		or
4		(ORANGE) ... PAD, EAR
5	2-376-317-00	BALL, SLIDE
6	2-376-318-00	STOPPER, SLIDE (R)
7 ♦	2-376-319-00	HEAD BAND
8	4-865-916-00	SCREEN (D)

ELECTRICAL PARTS

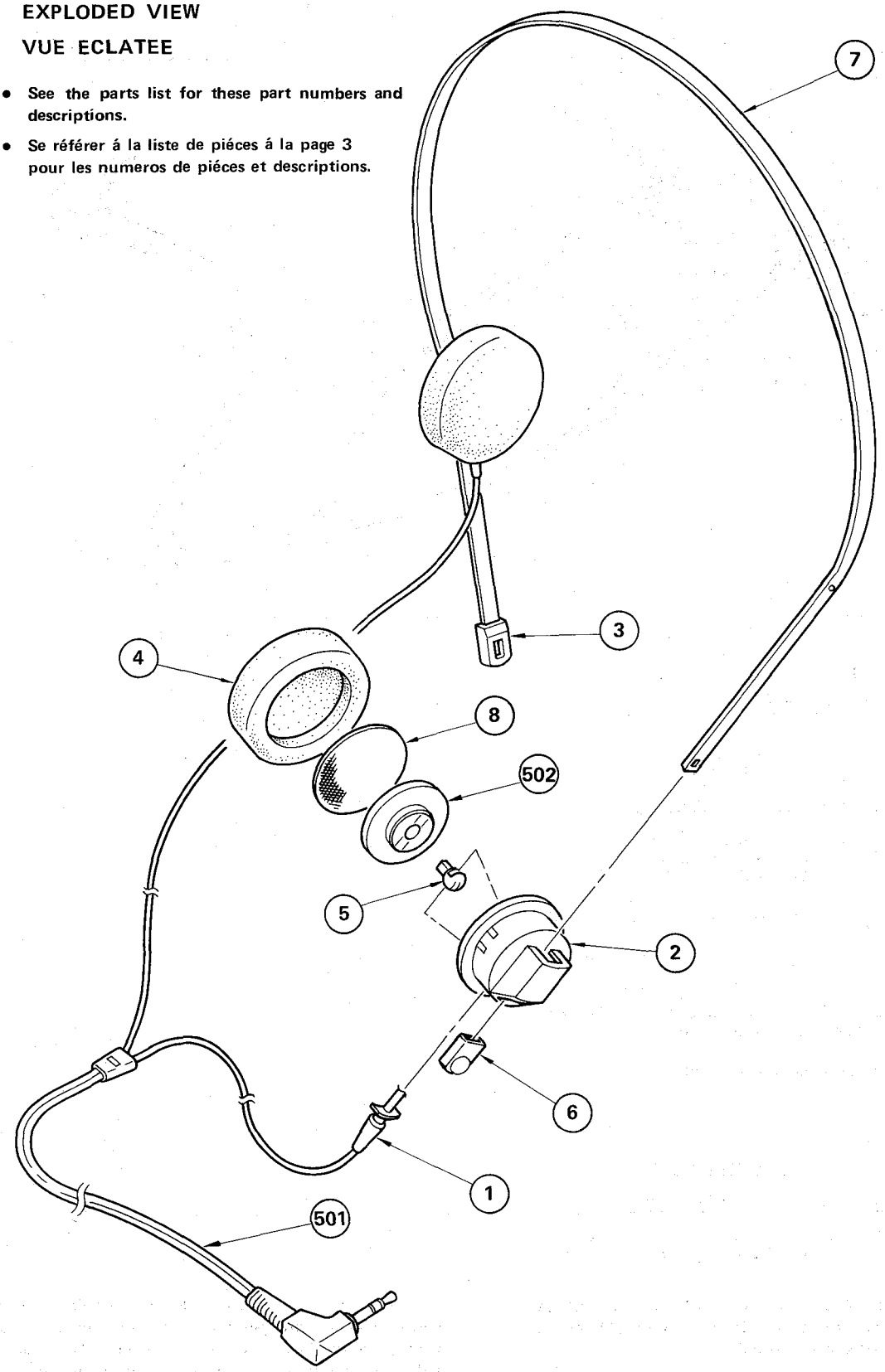
No.	Part No.	Description
501	1-556-803-00	CORD
502	1-505-058-11	DRIVER

- Items marked "♦" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Les pièces avec une marque "♦" ne sont pas stockeés parce qu'elles sont rarement nécessaires pour un dépannage de routine. Si nécessaire, demander les pièces en indiquant le numéro; seulement il faut s'attendre à un certain retard à la livraison.

5. EXPLODED VIEW
VUE ECLATEE

- See the parts list for these part numbers and descriptions.
- Se référer á la liste de piéces á la page 3 pour les numeros de piéces et descriptions.



Sony Corporation
Consumer Products Group
Technical Support Dept.

9-951-131-11

English
French
83B06234-1
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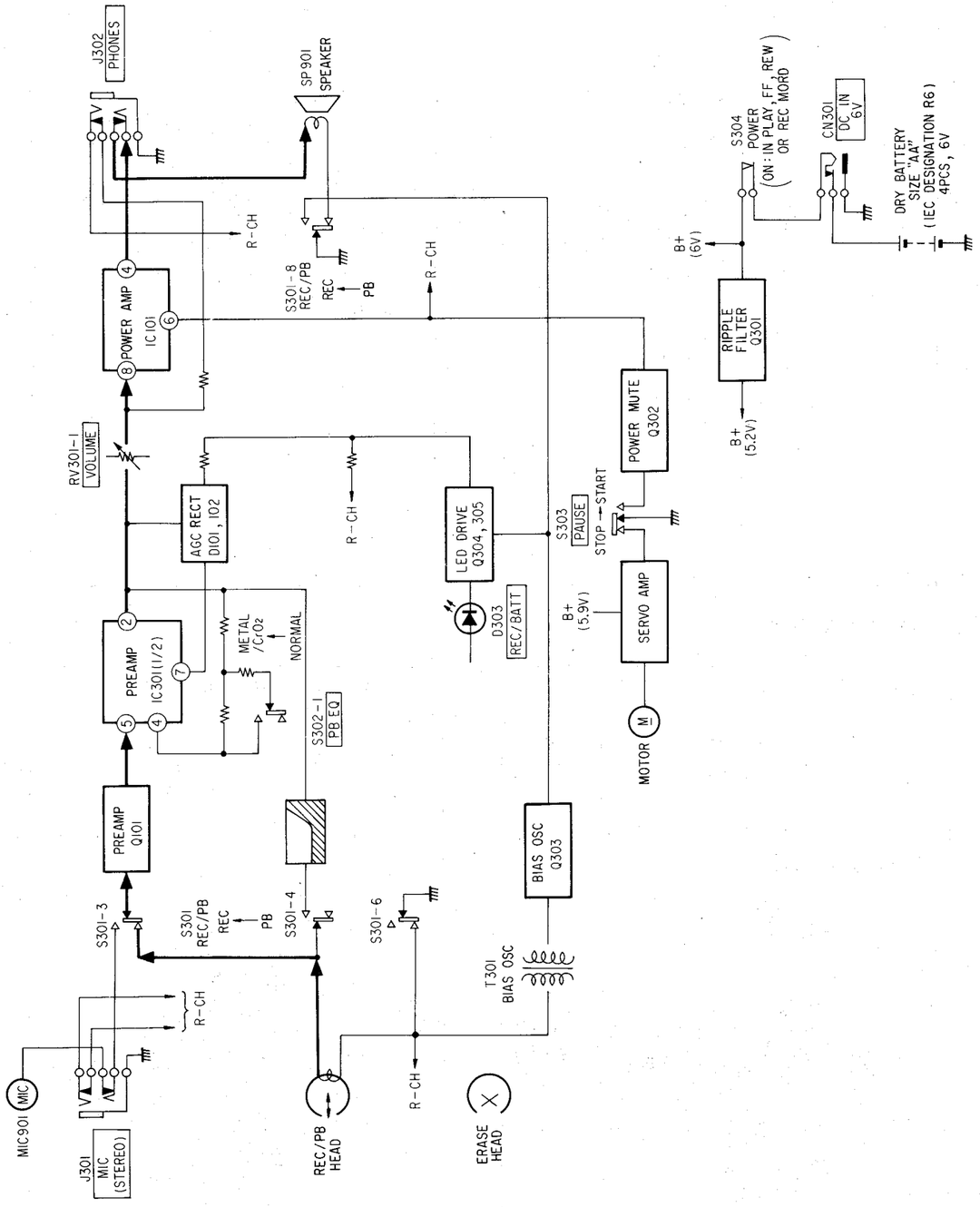
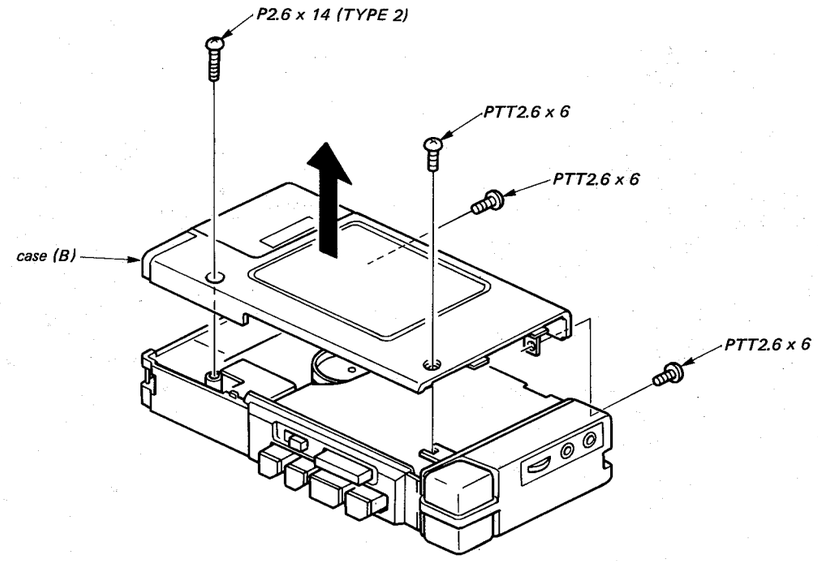
1-2. BLOCK DIAGRAM



SECTION 2
DISASSEMBLY

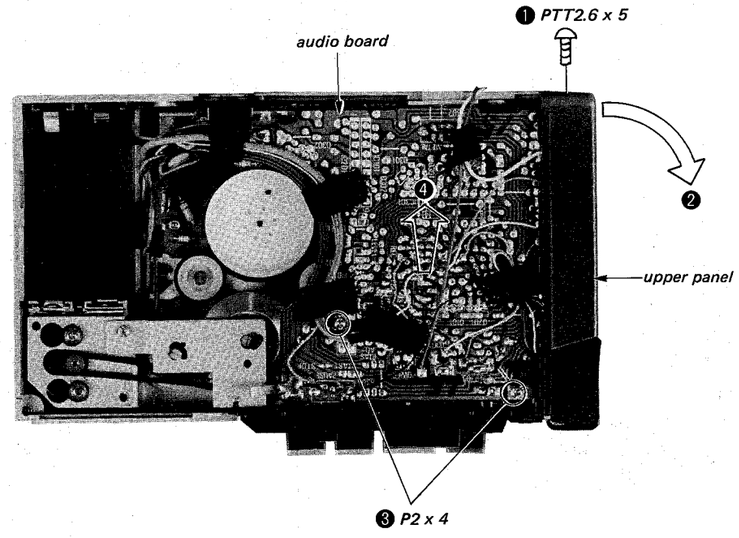
Note: Follow the disassembly procedure in the numerical order given.

CASE (B)

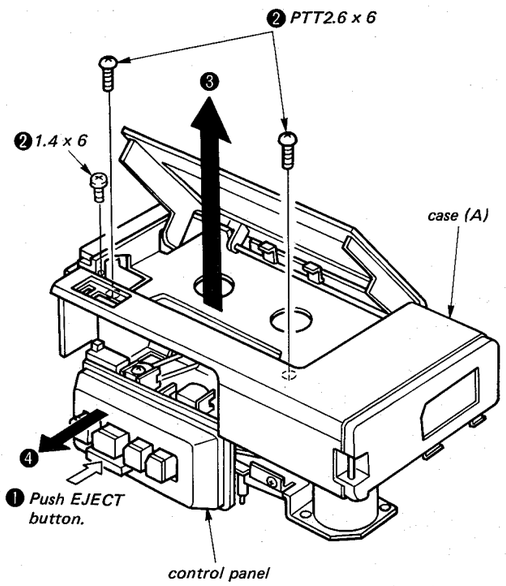


The speaker is replaceable by removing the case (B).

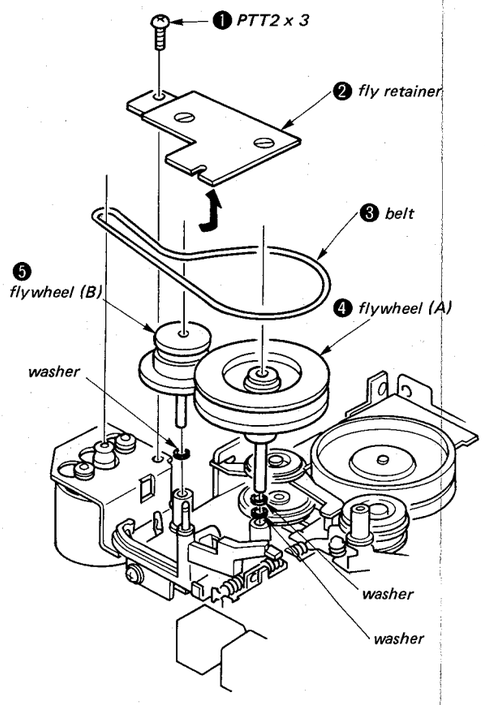
UPPER PANEL, AUDIO BOARD



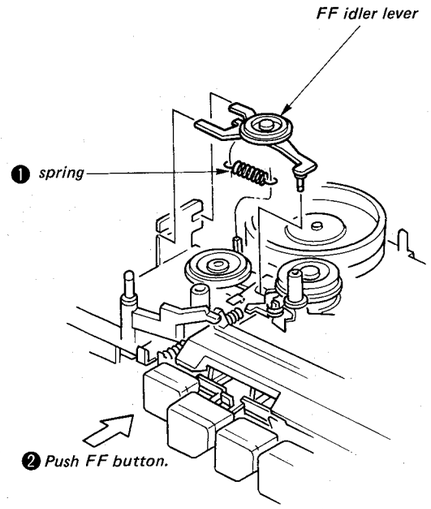
CASE (A), CONTROL PANEL



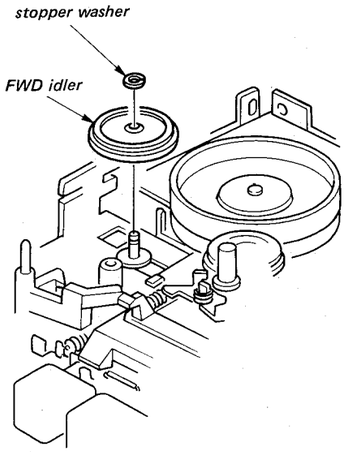
FLYWHEEL (A), (B)



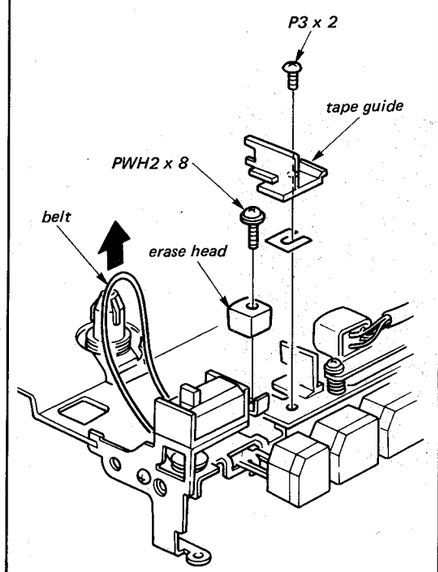
FF IDLER LEVER



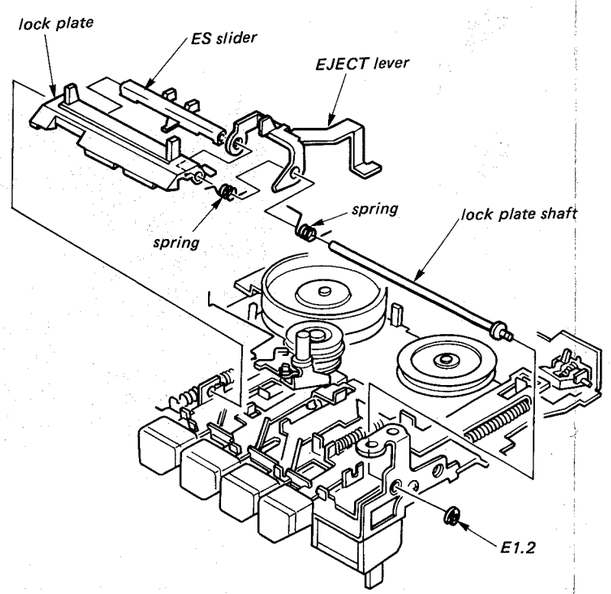
FWD IDLER



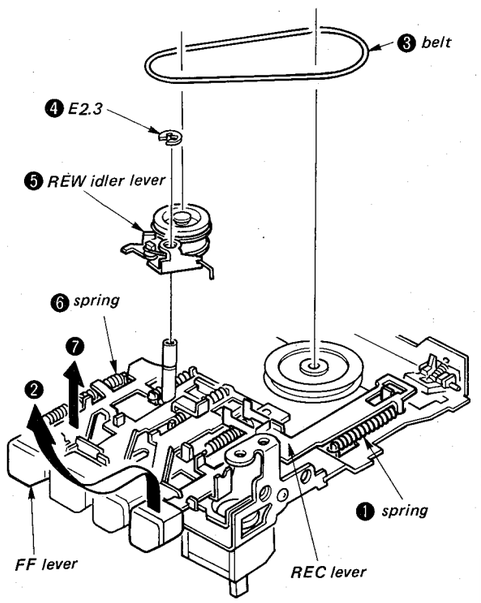
TAPE GUIDE, ERASE HEAD



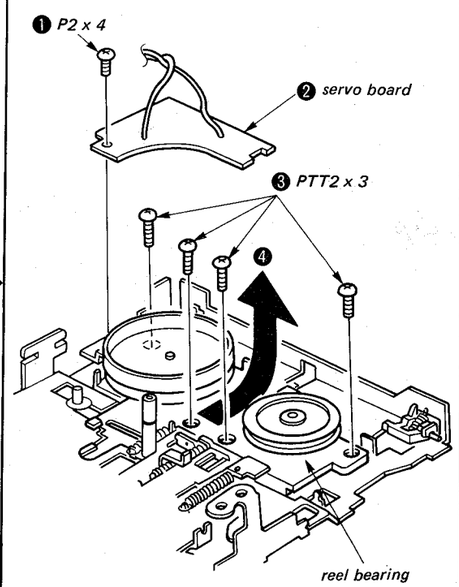
LOCK PLATE



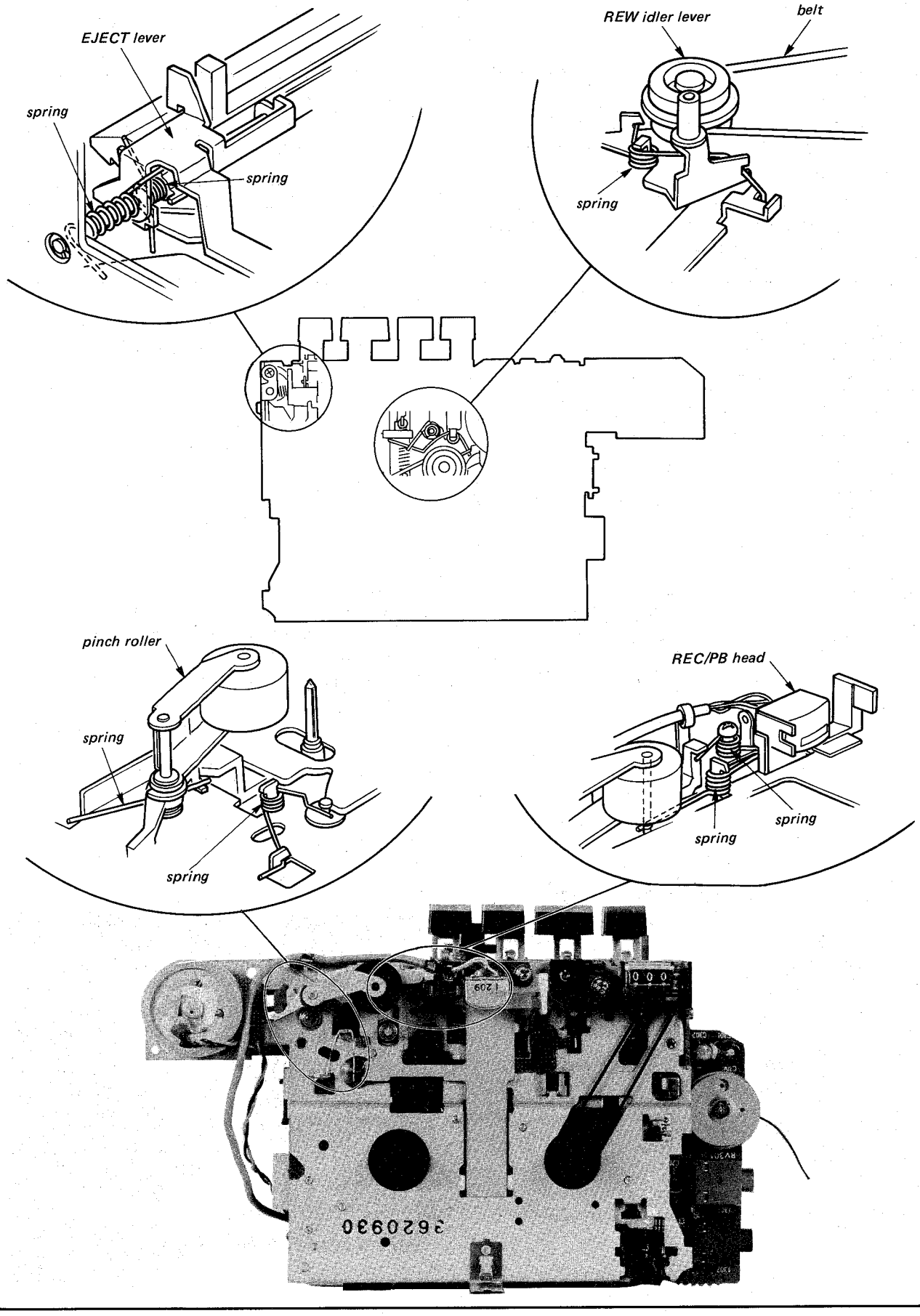
REC · FF LEVER, REW IDLER LEVER



SERVO BOARD, REEL BEARING



TO HOOK EACH TORSION SPRING



SECTION 3
ADJUSTMENTS

3-1. MECHANICAL ADJUSTMENT

PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	idlers

2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Torque Measurement

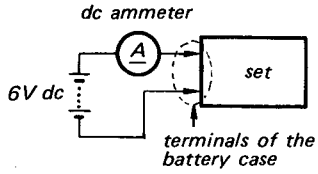
Torque	Torque Meter	Meter Reading
Forward	CQ-102B	23 – 48 g·cm (0.32 – 0.67 oz·inch)
Back Tension		2 – 4 g·cm (0.03 – 0.06 oz·inch)
Fast Forward and Rewind	CQ-201B	more than 70 g·cm (0.97 oz·inch)

Tape Tension Measurement

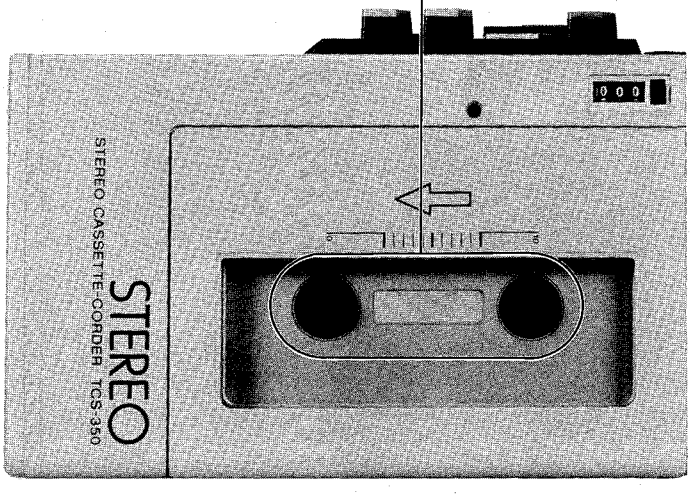
Meter	Meter Reading
CQ-403	more than 130 g (4.58 oz)

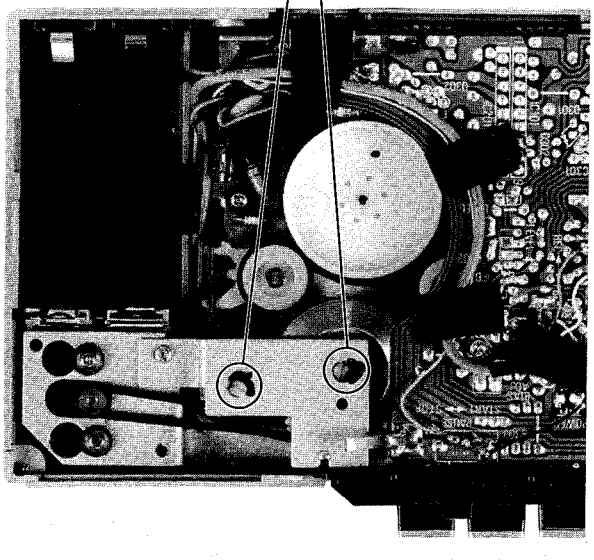
Flywheel Thrust Play Adjustment

– Playback Mode –



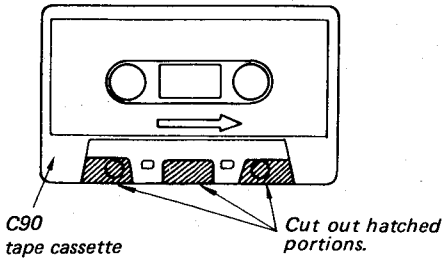
1. Loosen the two adjustment screws.
2. Turn one of them clockwise carefully.
3. Stop turning it when the current suddenly increase and loosen it ¼ turn.
4. Adjust the other screw in the same way as step 2 and 3.
5. Secure the adjustment screws with locking compound.



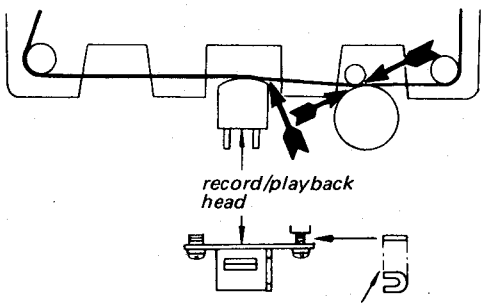


Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



2. In playback mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at arrowed portions.

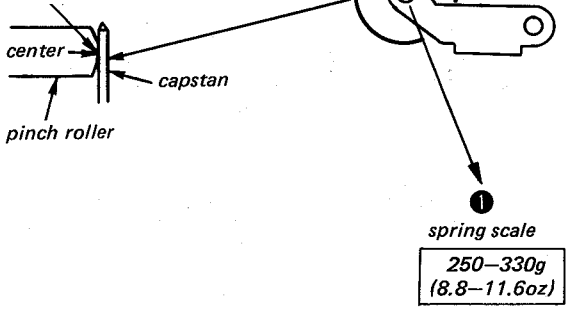


3-578-138-01 (t=0.1)
3-518-138-11 (t=0.2)
Shim, head height adjustment

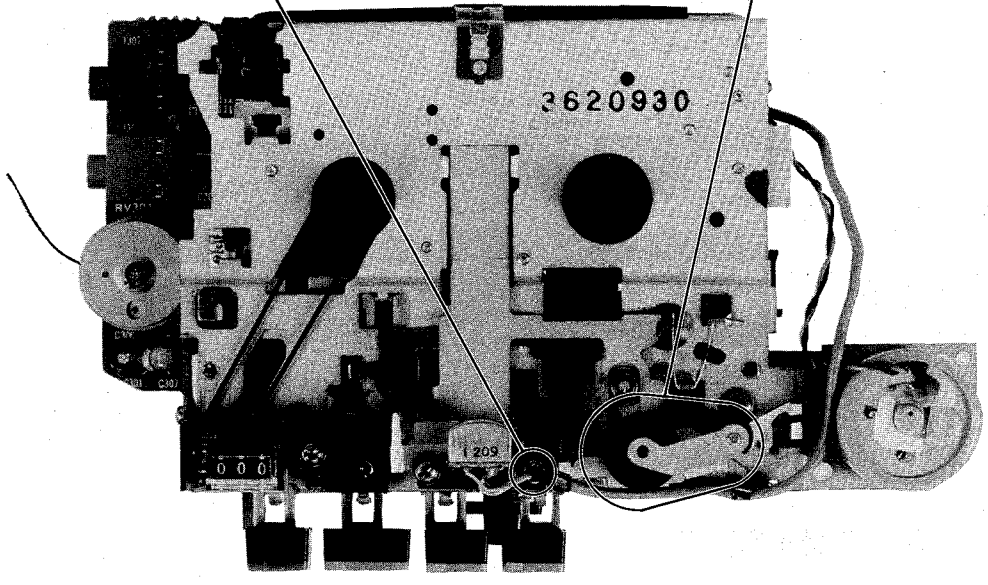
Pinch Roller Pressure Measurement

– Playback Mode –

❷ *Slowly return the pinch roller and read the spring scale just when the pinch roller starts rotating. (The capstan should first contacts here.)*



250–330g
(8.8–11.6oz)



3-2. ELECTRICAL ADJUSTMENT

Note: The adjustments should be performed in the order given in this service manual. The Adjustments should be performed for both L-CH and R-CH.

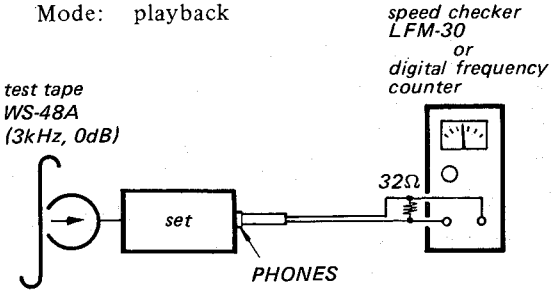
Tape Speed Adjustment

Setting:

VOLUME control: mechanical mid

Procedure:

Mode: playback

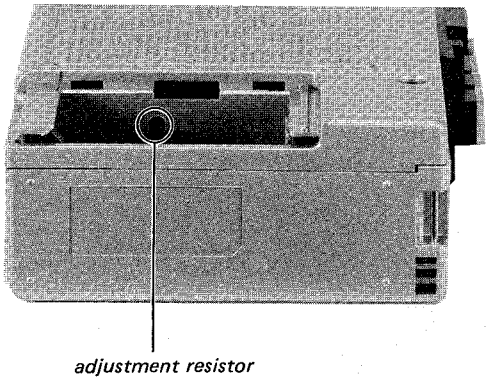


Specification:

Speed checker	Digital frequency counter
$^{+1}_{-2}$ %	2940 – 3030Hz

Frequency difference between the beginning and the end of the tape should be within ±2 % (±60 Hz).

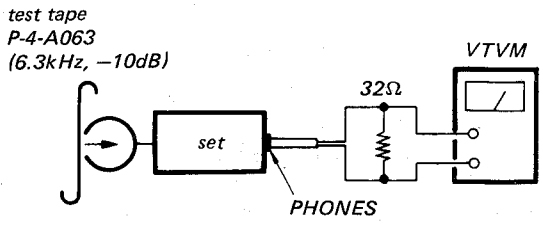
Adjustment Location:



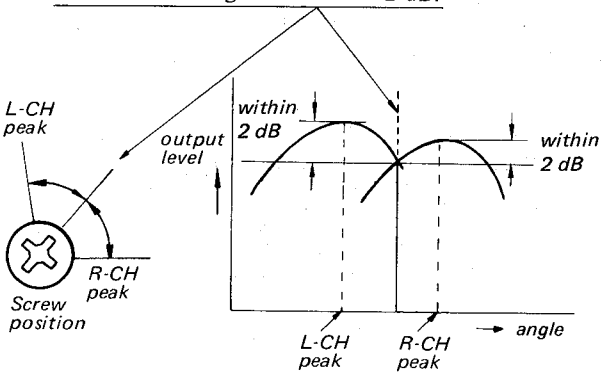
Record/playback Head Azimuth Adjustment

Procedure:

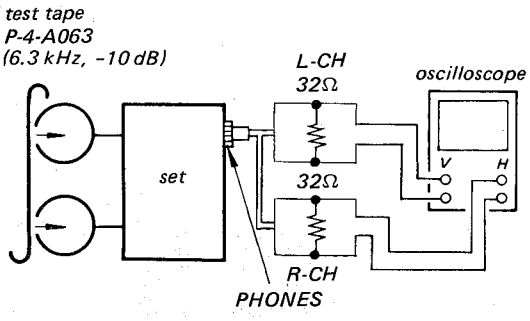
1. Mode: playback

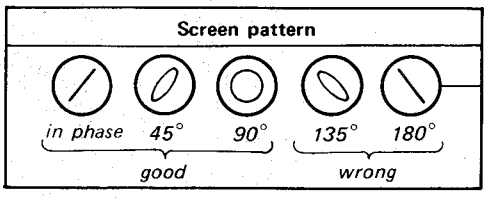


2. Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw where both of output levels match together within 2 dB.



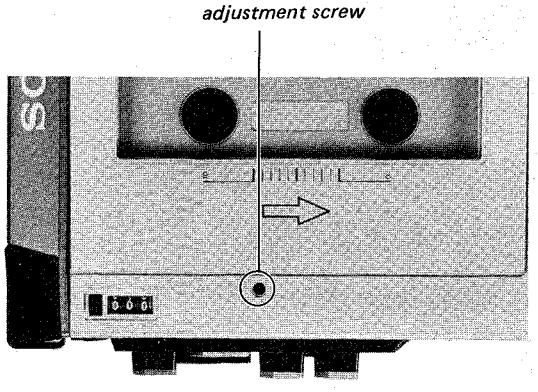
3. Phase Check
Mode: playback





Note: Finish the screw adjustment with a turn in the clockwise direction. After the adjustment, lock the adjustment screw with suitable locking compound.

Adjustment Location:



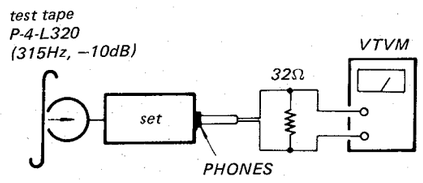
Playback Level Adjustment

Setting.

VOLUME: maximum

Procedure:

Mode: playback

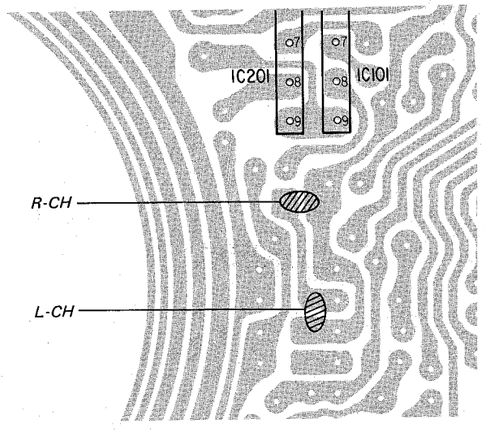


Specification:

Level difference between channels:
less than 3.5dB

1) If necessary, connect the patterns for higher level channel.
2) Confirm that the output level of PHONES is fixed when repeating playback and stop.

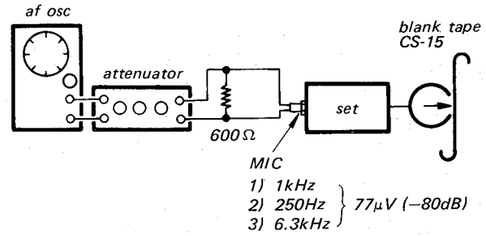
Adjustment Location:



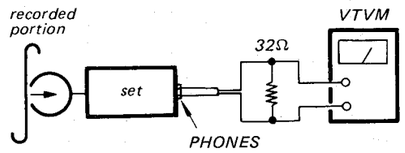
Record Bias Adjustment

Procedure:

1. Mode: record



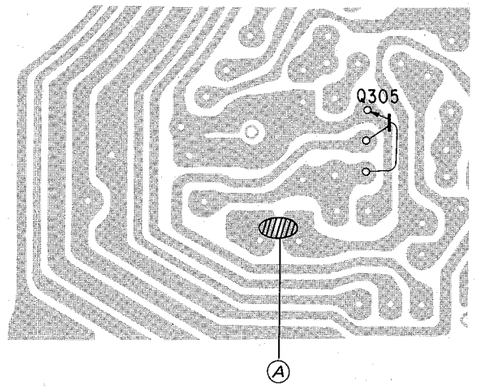
2. Mode: playback



3. Adjust VOLUME so that 1kHz output level is 77mV (−20dB).
4. Confirm that 250Hz and 6.3kHz output levels are 55mV (−23dB) – 110mV (−17dB).
5. If necessary, change the pattern connection and repeat steps 3, 4.

pattern Ⓐ	VTVM reading
open	up ↕ down
short	

Adjustment Location:

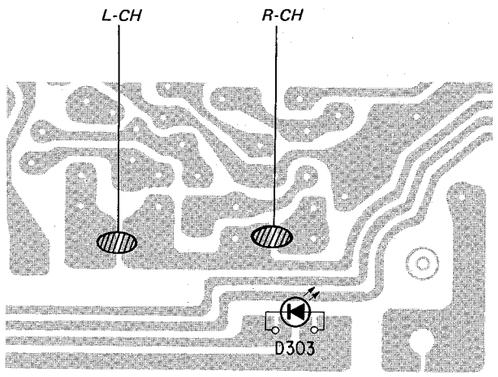


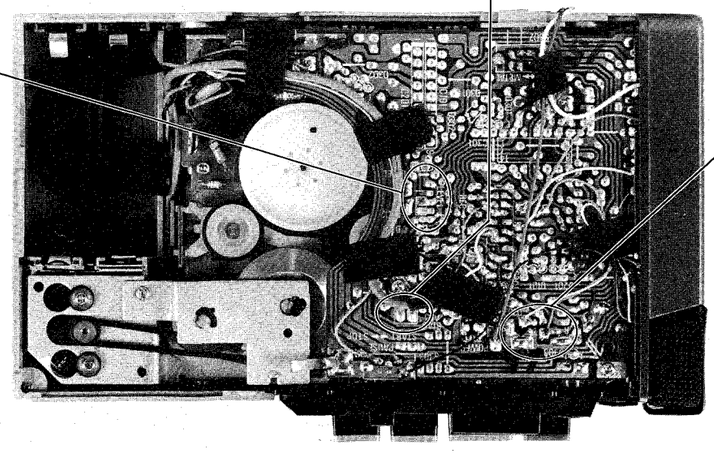
Microphone Sensitivity Adjustment

When replacing the built-in microphone, make sure of color marking on end of microphone lead or color-painted on microphone body and connect the pattern as shown in table.

microphone lead color marking	microphone body color-painted	pattern
blue	orange	open
black	green	short

Adjustment Location:





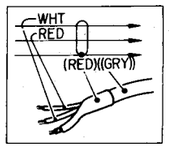
SECTION 4 DIAGRAMS

4-1. MOUNTING DIAGRAM
— Conductor Side —

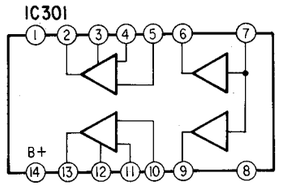
Q, IC					302		IC201, IC101		301		IC301					Q, IC
							304,305	303			101	201				
D							102 202		302 301							D
							201,101						303			

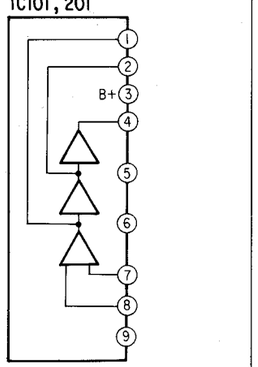
Note:

- Color code of sleeving over the end of the jacket.

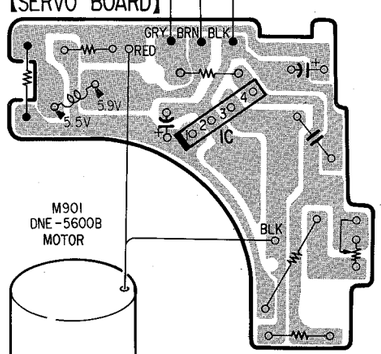


- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ▒ : B + pattern
- ▬▶ : signal path
- ▬·▶ : L-CH signal path
- ▬··▶ : R-CH signal path

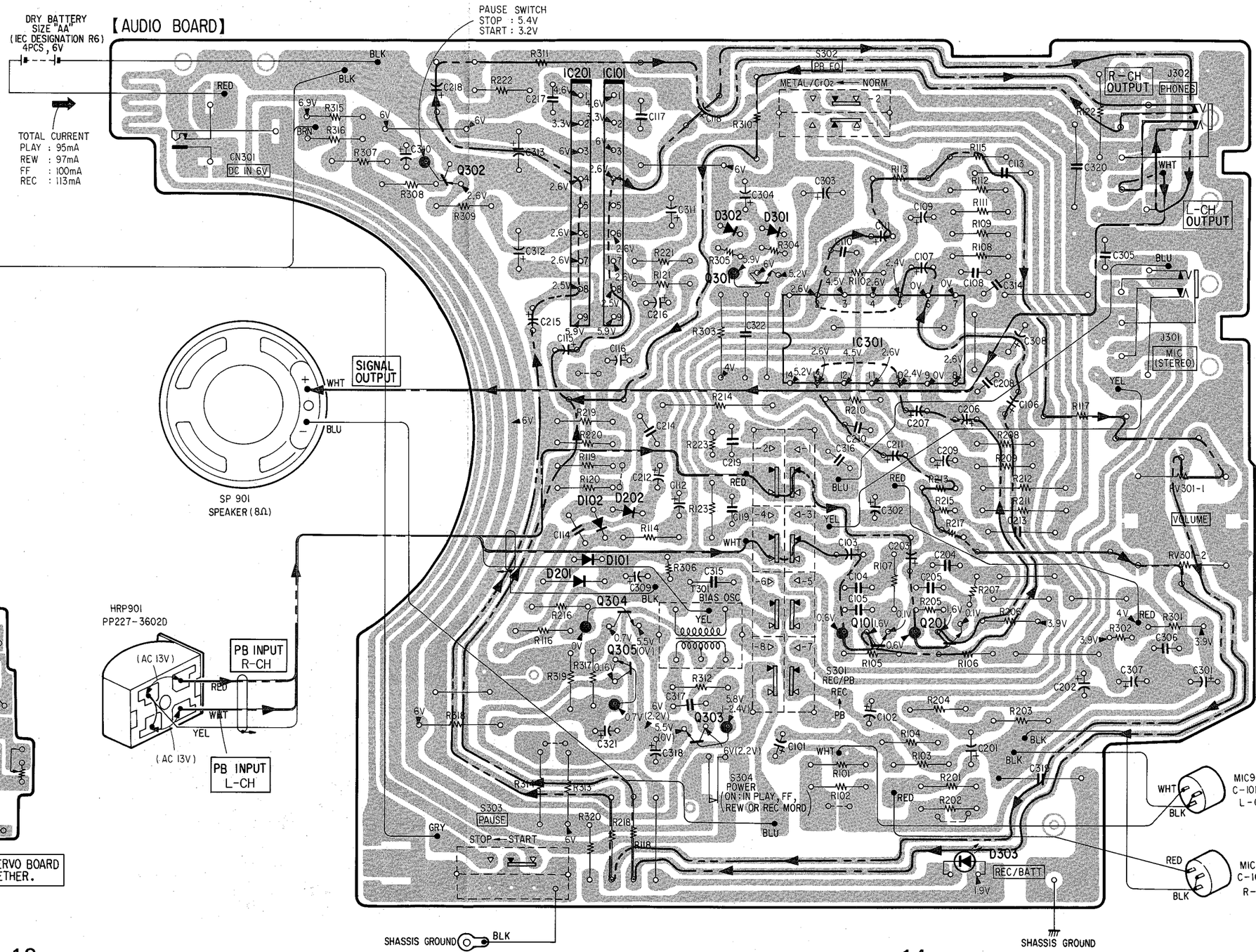




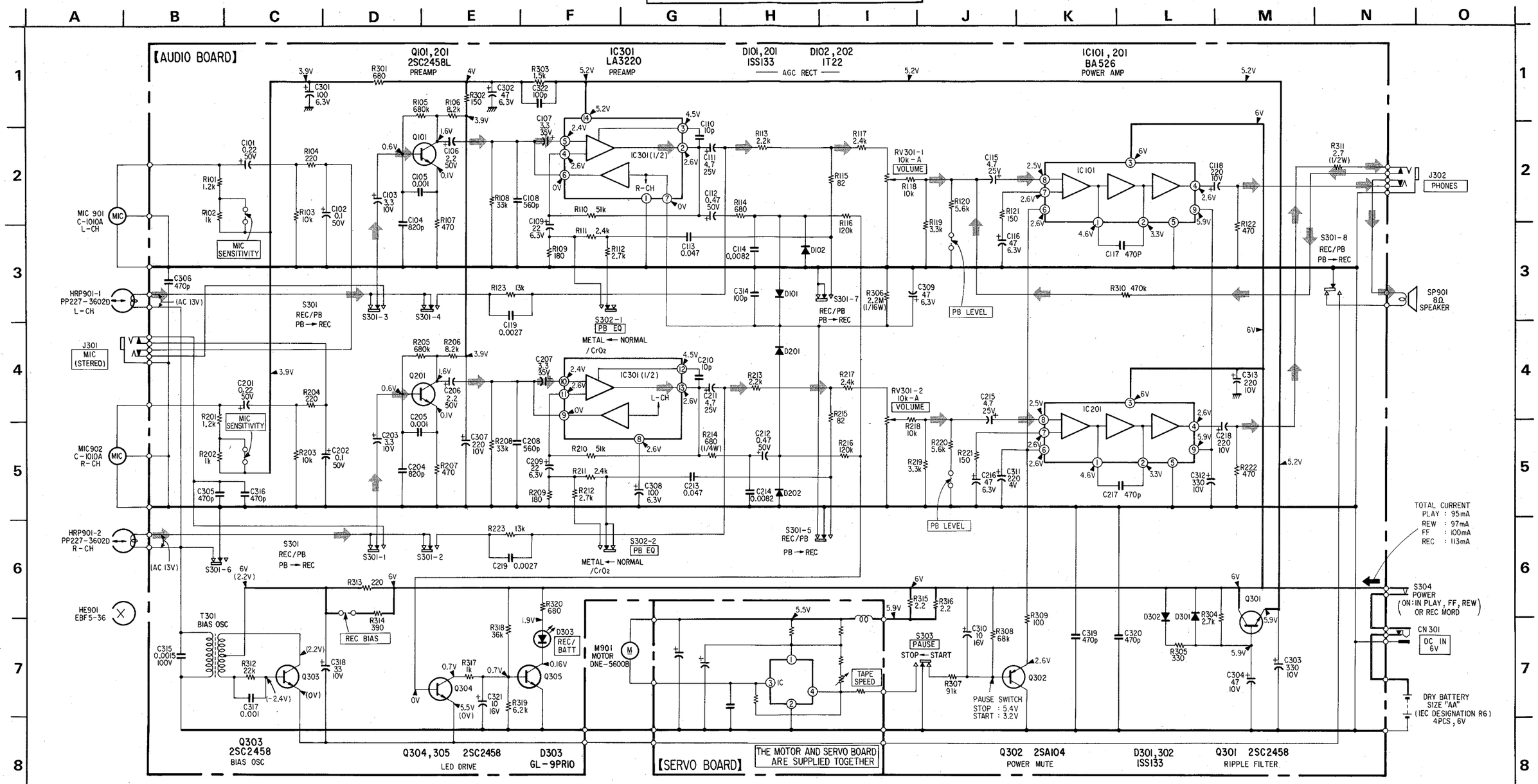
【SERVO BOARD】



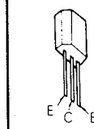
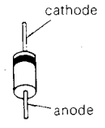
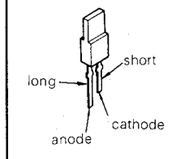
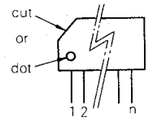
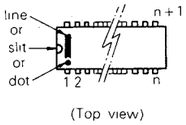
THE MOTOR AND SERVO BOARD ARE SUPPLIED TOGETHER.



4-2. SCHEMATIC DIAGRAM



●SEMICONDUCTOR LEAD LAYOUTS

2SC2458L 2SC2458 2SA1048	2SA1027R	1T22AM 1T22 1SS133	GL-9PR10	BA526	LA3220
					

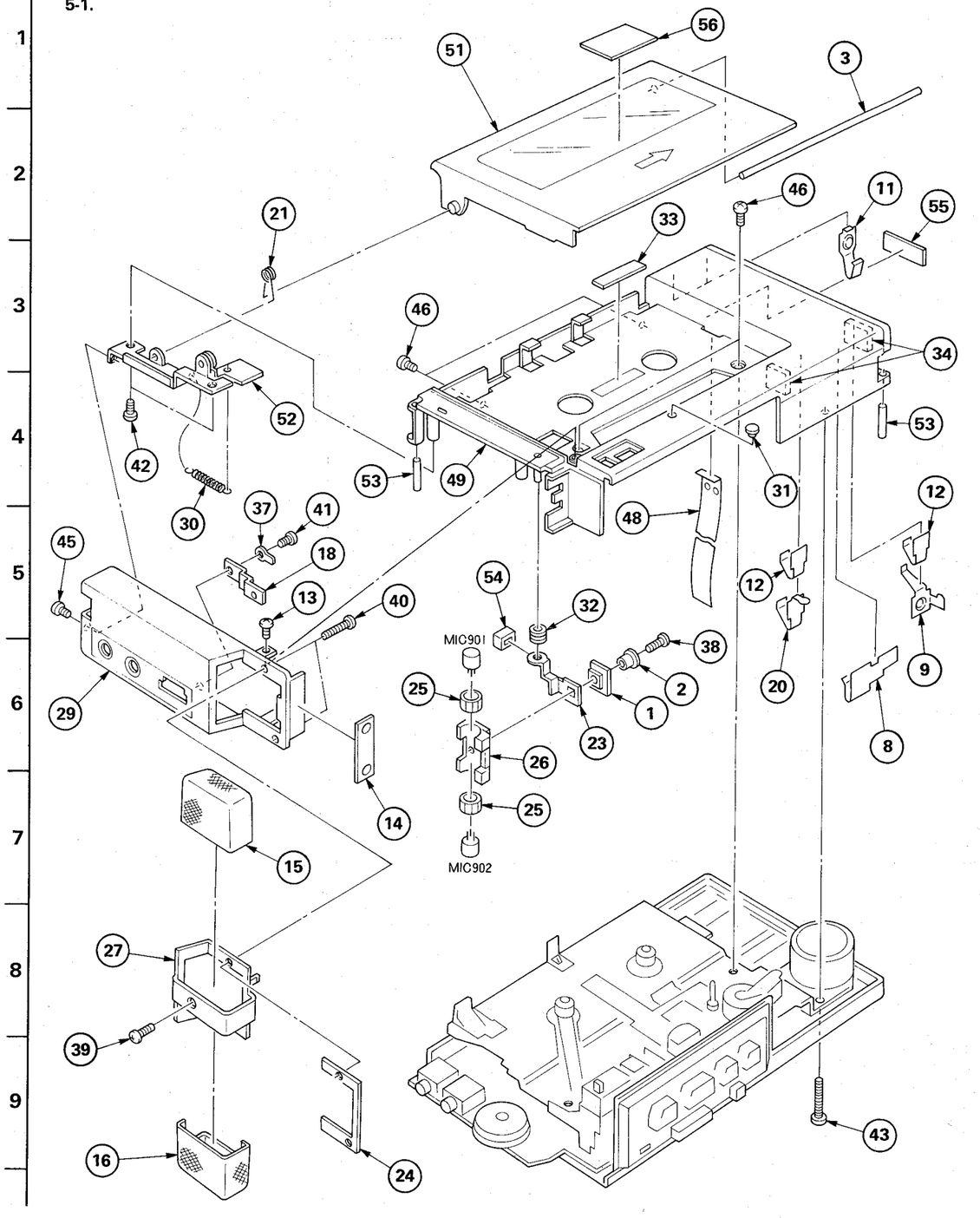
Note:

- All capacitors are in μF unless otherwise noted. pF : μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, ⅙W unless otherwise noted. kΩ : 1000Ω, MΩ : 1000kΩ
- ▭ : adjustment for repair.
- ——: B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal conditions.
  no mark : playback
  ( ) : record
- Voltage variations may be noted due to normal production tolerances.
- AC voltage readings with a VTVM.
- Total current is measured with no cassette installed.
- ➡ : signal path

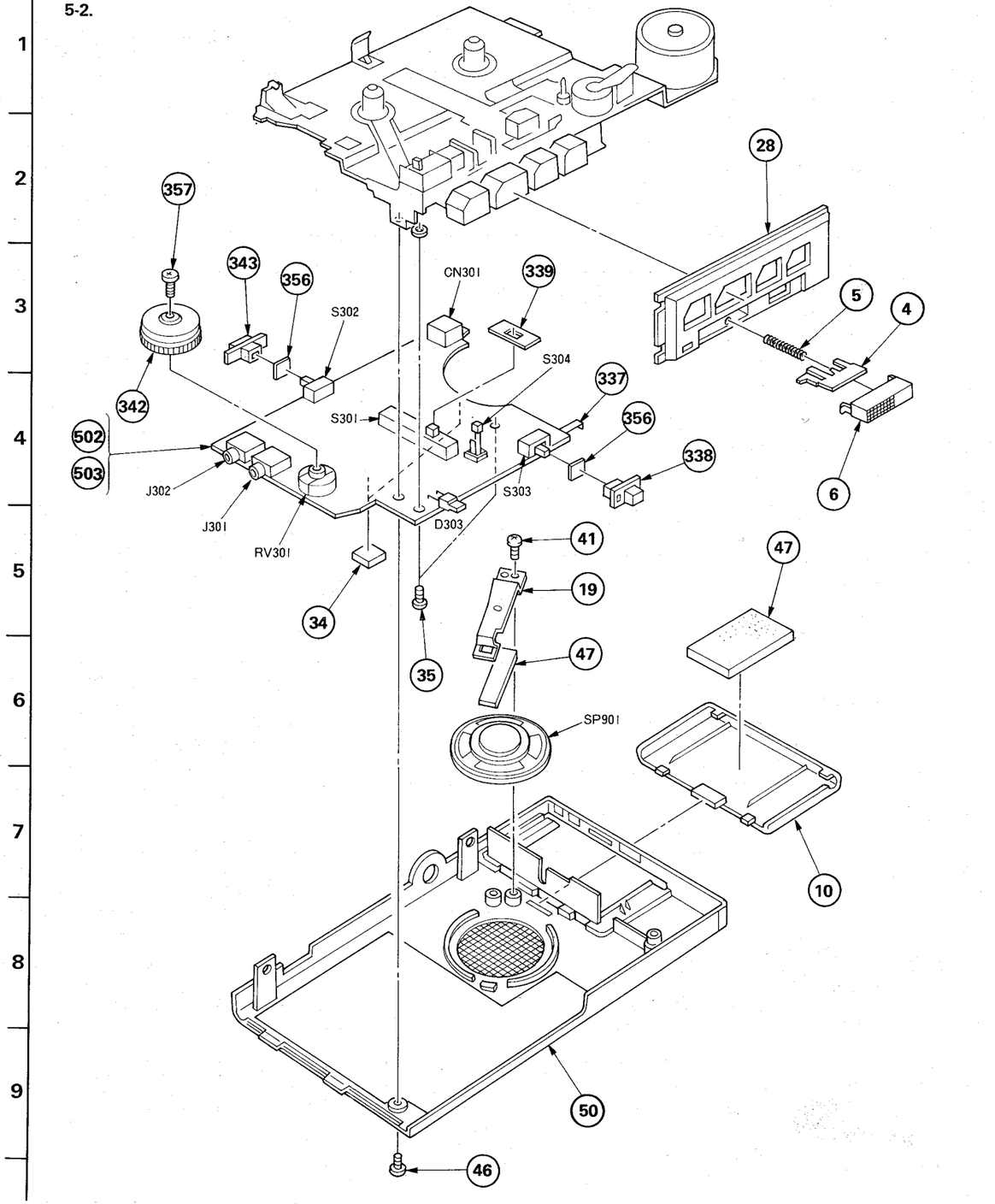
Note: Voltages are measured with a VOM (50kΩ/V).

SECTION 5
EXPLODED VIEWS AND PARTS LIST

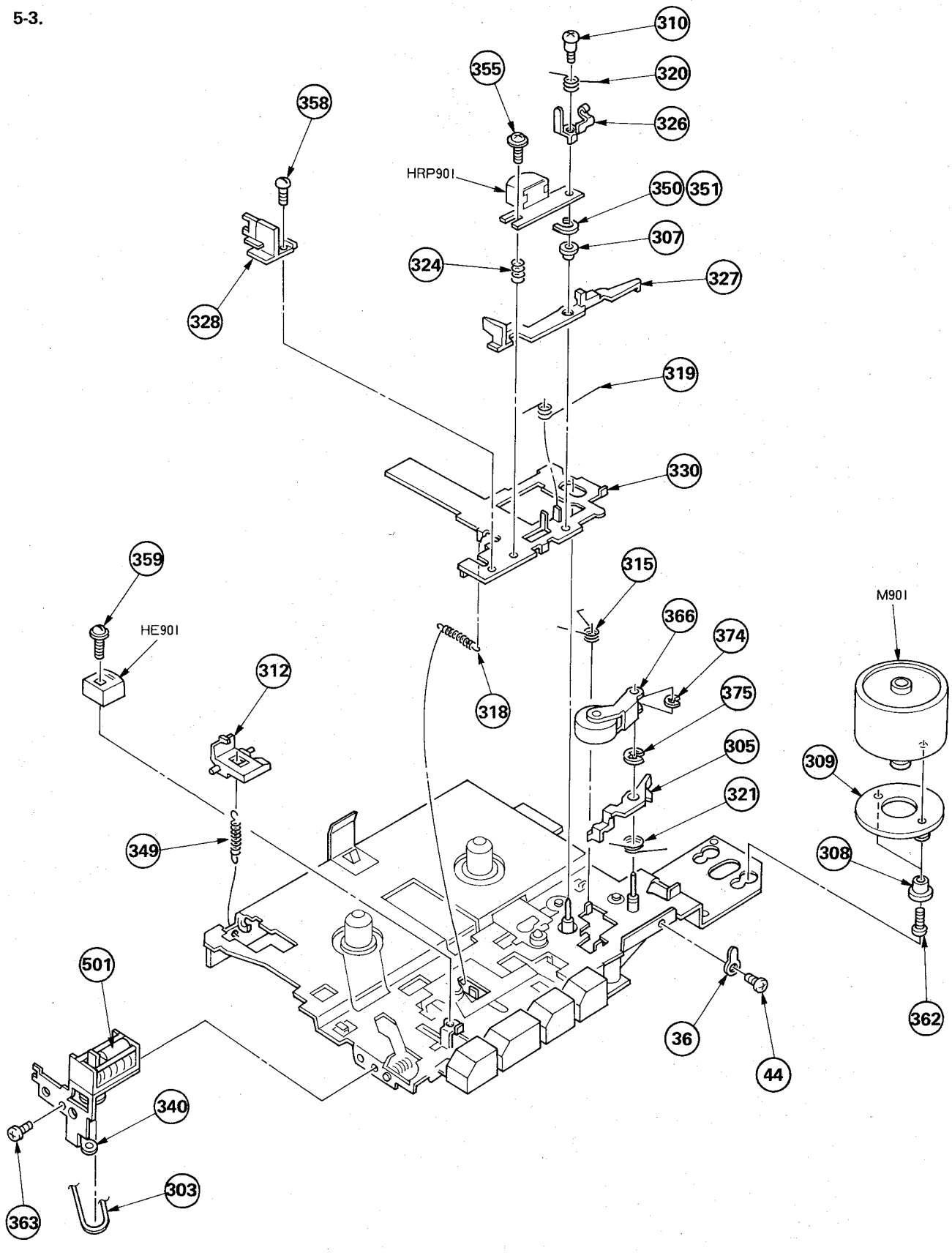
5-1.

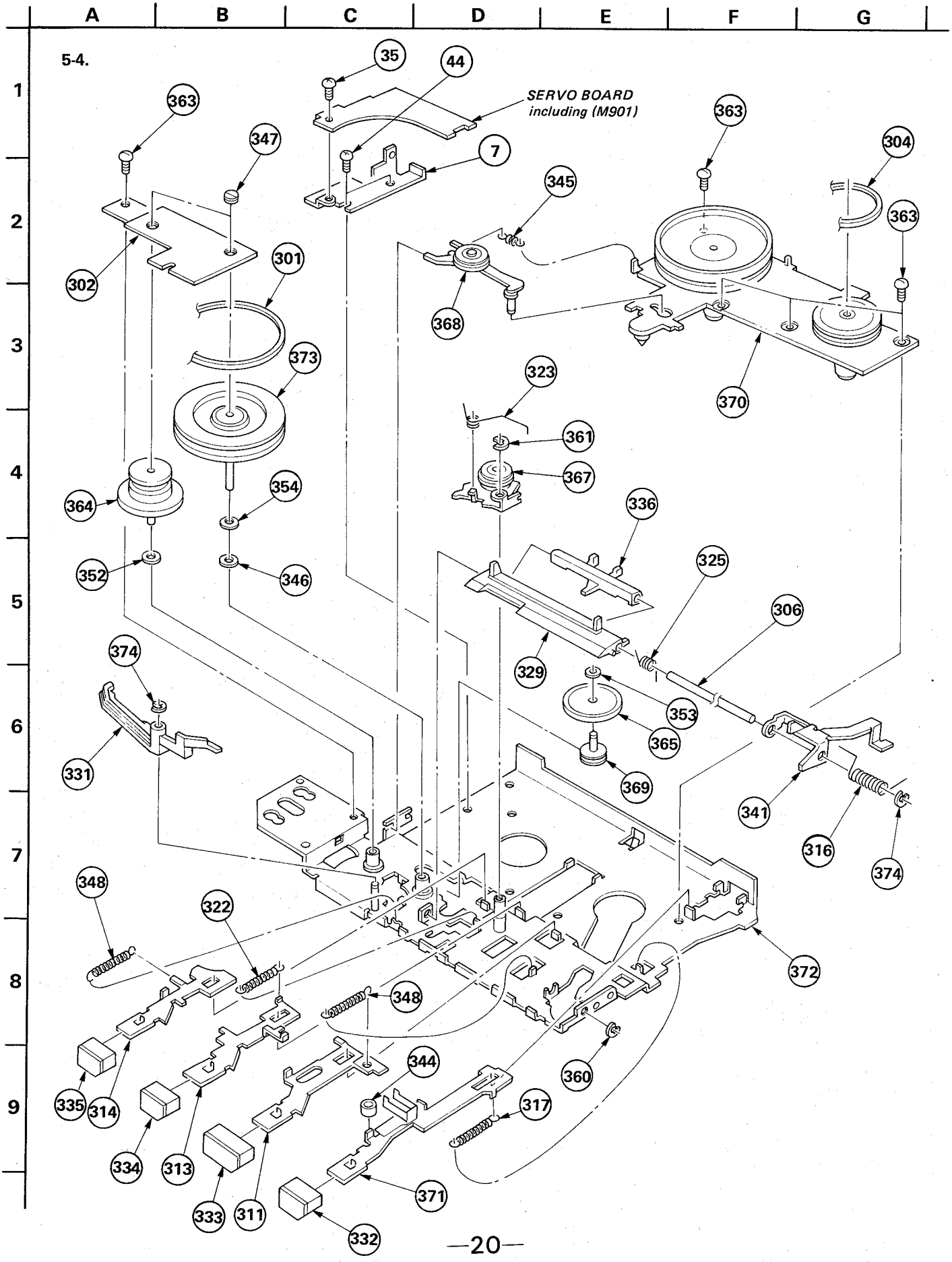


5-2.



5-3.


A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
310
320
355
326
358
HRP901
350
351
307
324
327
328
319
330
359
315
HE901
366
374
312
318
375
305
M901
309
321
349
308
501
362
36
44
340
303
363


A
B
C
D
E
F
G
1
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4
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6
7
8
9
5-4.
SERVO BOARD
including (M901)
35
44
363
347
7
345
363
304
302
301
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323
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311
332

GENERAL SECTION

No.	Part No.	Description
1	3-305-463-00	CUSHION, MICROPHONE CASE
2	3-305-474-00	SLEEVE, CUSHION
3	3-307-103-00	SHAFT, CASSETTE LID
4 ♦	3-307-105-00	LEVER, STOP BUTTON
5	3-307-108-00	SPRING, COMPRESSION
6	3-307-110-00	BUTTON, STOP
7 ♦	3-309-404-00	BRACKET, SERVO
8	3-309-406-02	TERMINAL BOARD (B), BATTERY
9	3-309-408-00	TERMINAL BOARD (D), BATTERY
10	3-309-417-31	LID, BATTERY CASE
11	3-309-442-00	TERMINAL BOARD, BATTERY (A)
12	3-309-443-00	SPRING, LEAF
13	3-309-597-71	SCREW (1.4X6), TAPPING
14	3-313-503-00	EMBLEM, STEREO
15	3-313-504-00	SCREEN (LEFT)
16	3-313-505-00	SCREEN (RIGHT)
17	.....	
18 ♦	3-313-507-00	BRACKET, GUARD, MICROPHONE
19 ♦	3-313-510-00	BRACKET, SPEAKER
20	3-313-511-00	TERMINAL (C), BATTERY
21	3-313-512-00	SPRING
22	.....	
23 ♦	3-313-516-00	BRACKET, MICROPHONE
24 ♦	3-313-517-00	BRACKET, SCREEN
25	3-312-741-00	CUSHION, MICROPHONE
26 ♦	3-313-519-00	BRACKET, MICROPHONE
27	3-313-520-00	GUARD, MICROPHONE
28	3-313-522-00	PANEL, CONTROL
29	3-313-523-00	PANEL, UPPER
30	3-491-375-00	SPRING, TENSION
31	3-545-657-21	BUSH
32	3-566-030-00	RUBBER, VIBRATION PROOF
33	3-578-101-00	PLATE, ORNAMENTAL
34	3-831-441-XX	CUSHION
35	7-621-255-25	SCREW +P 2X4
36	7-623-505-01	LUG, 2
37	7-623-507-01	LUG, 2.6
38	7-627-551-37	SCREW, PRECISION +P 1.4X5
39	7-627-553-48	SCREW, PRECISION +P 2X4
40	7-627-553-98	SCREW, PRECISION +P 2X8
41	7-685-132-21	SCREW +P 2.6X5 TYPE2 SLIT
42	7-685-133-11	SCREW +P 2.6X6 TYPE1
43	7-685-137-24	SCREW +P 2.6X14 TYPE2 SLIT
44	7-685-780-01	SCREW +PTT 2X3 (S)
45	7-685-791-09	SCREW +PTT 2.6X5 (S)

GENERAL SECTION

No.	Part No.	Description
46	7-685-792-04	SCREW +PTT 2.6X6 (S)
47	9-911-815-02	CUSHION
48	9-911-816-01	RIBBON, BATTERY
49	X-3313-503-1	CASE ASSY (A)
50	X-3313-504-1	CASE ASSY (B)
51	X-3313-501-0	LID ASSY, CASSETTE
52 ♦	X-3313-502-0	BRACKET ASSY, EJECT
53	3-703-357-05	STRAIGHT PIN
54	3-564-725-00	MOTOR CUSHION B
55	3-527-213-00	(E,AEP,UK,Canadian)...LABEL, SERIAL NUMBER
55	3-701-999-00	(US).....LABEL, SERIAL NUMBER
56	3-703-707-01	STICKER, SONY SYMBOL (21)

ACCESSORY & PACKING MATERIAL

Part No.	Description
3-313-526-00	CUSHION
3-313-527-00	SPACER
3-313-531-00	CASE, CARRYING
3-313-533-00	INDIVIDUAL CARTON
3-313-535-00	HEADPHONE CARTON
3-570-631-71	BAG, POLYETHYLENE
3-572-854-00	BELT, SHOULDER
3-773-372-11	(E,AEP,UK,UK,Canadian)..MANUAL, INSTRUCTION
3-773-372-41	(AEP).....MANUAL, INSTRUCTION
3-793-828-11	QUESTIONNAIRE
8-893-527-00	TAPE, DEMO (CD-814)
8-951-151-91	MDR-W3(B) SET

MECHANISM SECTION

No.	Part No.	Description
301	3-306-803-11	BELT (42.5X1)
302 ♦	3-306-806-00	RETAINER, FLY
303	3-306-815-00	BELT (36.5X0.6)
304	3-306-816-00	BELT (30.5X0.9)
305	3-306-823-00	LEVER, SHUT-OFF
306	3-306-826-00	SHAFT, LOCK PLATE
307	3-306-827-00	COLLAR, HEAD
308 ♦	3-306-828-00	COLLAR, MOTOR
309	3-306-829-00	CUSHION, MOTOR
310	3-306-830-00	SCREW, FITTING, HEAD
311	3-306-853-11	LEVER, FWD
312	3-306-854-00	LEVER, ERASING PROTECTION
313	3-306-855-13	LEVER, REW
314	3-306-856-11	LEVER, FF
315	3-306-858-00	SPRING
316	3-306-859-00	SPRING
317	3-306-860-00	SPRING, TENSION
318	3-306-861-00	SPRING, TENSION
319	3-306-862-00	SPRING
320	3-306-863-00	SPRING
321	3-306-864-00	SPRING
322	3-306-866-00	SPRING, TENSION
323	3-306-867-00	SPRING
324	3-306-872-00	SPRING, COMPRESSION
325	3-306-876-00	SPRING
326	3-306-877-11	GUIDE, WIRING
327	3-306-878-00	LEVER, DETECTION
328	3-306-879-00	GUIDE, TAPE
329	3-306-880-11	PLATE, LOCK
330 ♦	3-306-882-11	CHASSIS, HEAD
331	3-306-883-00	LEVER, RELEASE
332	3-306-885-00	BUTTON, REC
333	3-306-886-00	BUTTON, FWD
334	3-306-887-00	BUTTON, REW
335	3-306-888-00	BUTTON, FF
336	3-306-896-00	SLIDER, SE
337 ♦	3-307-707-00	SPRING
338	3-307-715-00	BUTTON, PAUSE
339 ♦	3-307-723-00	COVER, SWITCH
340	3-313-401-00	BRACKET, COUNTER
341	3-313-402-00	LEVER, EJECT
342	3-313-501-00	KNOB, CONTROL
343	3-313-502-00	KNOB, SELECTION, TAPE
344	3-527-028-00	RUBBER, BRAKE
345	3-531-794-00	SPRING, TENSION

MECHANISM SECTION

No.	Part No.	Description
346	3-545-715-00	WASHER
347	3-547-625-00	SCREW, THRUST ADJUST
348	3-564-949-00	SPRING, TENSION
349	3-570-951-00	SPRING, TENSION
350	3-578-138-01	SEAM
351	3-578-138-11	SEAM
352	3-578-223-11	WASHER
353	3-590-523-00	WASHER, STOPPER
354	3-701-437-11	WASHER
355	3-701-467-00	SCREW, LOCK
356	3-831-441-XX	PAD, KNOB
357	3-888-156-00	SCREW
358	7-621-905-25	SCREW, TOTSU P 2X3
359	7-621-955-55	SCREW, TOTSU PWH 2X8
360	7-624-101-04	STOP RING 1.2 (E TYPE)
361	7-624-105-04	STOP RING 2.3, TYPE -E
362	7-627-552-57	SCREW, PRECISION +P 1.7X5
363	7-687-431-31	SCREW, TOTSU PTT 2X3
364	X-3306-804-0	FLYWHEEL (B) ASSY
365	X-3306-807-0	IDLER ASSY, FWD
366	X-3306-813-0	PINCH ROLLER ASSY
367	X-3306-815-0	LEVER ASSY, REW IDLER
368	X-3306-816-0	LEVER ASSY, FF IDLER
369 ♦	X-3306-817-0	SHAFT ASSY, T IDLER
370	X-3306-820-0	BEARING ASSY, REEL
371	X-3306-826-0	LEVER ASSY, REC
372 ♦	X-3306-827-0	CHASSIS ASSY
373	X-3306-830-0	FLYWHEEL (A) ASSY
374	7-624-102-04	E 1.5
375	7-624-106-00	E 3.0

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in µF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:µF, PF:µµF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : µH

SEMICONDUCTORS
In each case, U : µ, for example:
UA···: µA···, UPA···: µPA···, UPC···: µPC,
UPD···: µPD···

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
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- F : nonflammable

COILS
- MMH : mH, UH : µH

SEMICONDUCTORS
In each case, U : µ, for example:
UA···: µA···, UPA···: µPA···, UPC···: µPC,
UPD···: µPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
501	1-548-558-21	TIMER, TAPE			
502 ♦	1-609-744-00	PC BOARD, AUDIO			
503 ♦	A-3070-102-A	MOUNTED PCB, AUDIO			
C101	1-123-608-00	ELECT	0.22MF	20%	50V
C102	1-123-607-00	ELECT	0.1MF	20%	50V
C103	1-131-501-00	TANTALUM	3.3MF	10%	10V
C104	1-102-117-00	CERAMIC	820PF	10%	50V
C105	1-102-074-00	CERAMIC	0.001MF	10%	50V
C106	1-123-612-00	ELECT	2.2MF	20%	50V
C107	1-123-613-00	ELECT	3.3MF	20%	35V
C108	1-102-115-00	CERAMIC	560PF	10%	50V
C109	1-123-618-00	ELECT	22MF	20%	6.3V
C110	1-102-947-00	CERAMIC	10PF	5%	50V
C111	1-123-616-00	ELECT	4.7MF	20%	25V
C112	1-123-610-00	ELECT	0.47MF	20%	50V
C113	1-130-491-00	MYLAR	0.047MF	5%	50V
C114	1-161-012-00	CERAMIC	0.0082MF	10%	25V
C115	1-123-616-00	ELECT	4.7MF	20%	25V
C116	1-123-647-00	ELECT	47MF	20%	6.3V
C117	1-102-114-00	CERAMIC	470PF	10%	50V
C118	1-123-308-00	ELECT	220MF	20%	10V
C119	1-161-006-00	CERAMIC	0.0027MF	10%	25V
C201	1-123-608-00	ELECT	0.22MF	20%	50V
C202	1-123-607-00	ELECT	0.1MF	20%	50V
C203	1-131-501-00	TANTALUM	3.3MF	10%	10V
C204	1-102-117-00	CERAMIC	820PF	10%	50V
C205	1-102-074-00	CERAMIC	0.001MF	10%	50V
C206	1-123-612-00	ELECT	2.2MF	20%	50V
C207	1-123-613-00	ELECT	3.3MF	20%	35V
C208	1-102-115-00	CERAMIC	560PF	10%	50V
C209	1-123-618-00	ELECT	22MF	20%	6.3V
C210	1-102-947-00	CERAMIC	10PF	5%	50V
C211	1-123-616-00	ELECT	4.7MF	20%	25V
C212	1-123-610-00	ELECT	0.47MF	20%	50V
C213	1-130-491-00	MYLAR	0.047MF	5%	50V
C214	1-161-012-00	CERAMIC	0.0082MF	10%	25V
C215	1-123-616-00	ELECT	4.7MF	20%	25V
C216	1-123-647-00	ELECT	47MF	20%	6.3V
C217	1-102-114-00	CERAMIC	470PF	10%	50V
C218	1-123-308-00	ELECT	220MF	20%	10V
C219	1-161-006-00	CERAMIC	0.0027MF	10%	25V
C301	1-123-661-00	ELECT	100MF	20%	6.3V
C302	1-123-647-00	ELECT	47MF	20%	6.3V
C303	1-124-363-00	ELECT	330MF	20%	10V
C304	1-123-306-00	ELECT	47MF	20%	10V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C305	1-102-114-00	CERAMIC	470PF	10%	50V
C306	1-102-114-00	CERAMIC	470PF	10%	50V
C307	1-124-361-00	ELECT	220MF	20%	10V
C308	1-123-661-00	ELECT	100MF	20%	6.3V
C309	1-123-647-00	ELECT	47MF	20%	6.3V
C310	1-123-617-00	ELECT	10MF	20%	16V
C311	1-123-827-00	ELECT	220MF	20%	4V
C312	1-124-363-00	ELECT	330MF	20%	10V
C313	1-123-308-00	ELECT	220MF	20%	10V
C314	1-102-106-00	CERAMIC	100PF	10%	50V
C315	1-106-176-00	MYLAR	0.0015MF	5%	100V
C316	1-102-114-00	CERAMIC	470PF	10%	50V
C317	1-102-074-00	CERAMIC	0.001MF	10%	50V
C318	1-123-645-00	ELECT	33MF	20%	10V
C319	1-162-106-11	CERAMIC	470PF	10%	50V
C320	1-162-106-11	CERAMIC	470PF	10%	50V
C321	1-123-617-00	ELECT	10MF	20%	16V
C322	1-102-973-00	CERAMIC	100PF	5%	50V
CN301	1-507-749-00	JACK, EXTENTION POWER			
D101	8-719-901-33	DIODE 1SS133			
D102	8-719-422-21	DIODE 1T22AM			
D201	8-719-901-33	DIODE 1SS133			
D202	8-719-422-21	DIODE 1T22AM			
D301	8-719-901-33	DIODE 1SS133			
D302	8-719-901-33	DIODE 1SS133			
D303	8-719-909-10	DIODE GL-9PR10			
HE901	8-658-096-02	HEAD, ERASE EBF5-36			
HRP901	8-825-507-60	HEAD (PP227-3602D)			
IC101	8-759-952-60	IC BA526			
IC201	8-759-952-60	IC BA526			
IC301	8-759-800-92	IC LA3220			
J301	1-507-838-21	JACK			
J302	1-507-838-00	JACK			
M901	8-835-075-11	MOTOR, DC (DNE-5600B)			
MIC901	8-814-183-10	MICROPHONE, BUILT-IN (C-1010A)			
MIC902	8-814-183-10	MICROPHONE, BUILT-IN (C-1010A)			
Q101	8-729-245-83	TRANSISTOR 2SC2458			
Q201	8-729-245-83	TRANSISTOR 2SC2458			
Q301	8-729-245-83	TRANSISTOR 2SC2458			
Q302	8-729-612-77	TRANSISTOR 2SA1027R			
Q303	8-729-245-83	TRANSISTOR 2SC2458			
Q304	8-729-245-83	TRANSISTOR 2SC2458			
Q305	8-729-245-83	TRANSISTOR 2SC2458			

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R101	1-247-833-00	CARBON	1.2K	5%	1/6W
R102	1-247-831-00	CARBON	1K	5%	1/6W
R103	1-247-855-00	CARBON	10K	5%	1/6W
R104	1-247-815-00	CARBON	220	5%	1/6W
R105	1-247-899-00	CARBON	680K	5%	1/6W
R106	1-247-853-00	CARBON	8.2K	5%	1/6W
R107	1-247-823-00	CARBON	470	5%	1/6W
R108	1-247-867-00	CARBON	33K	5%	1/6W
R109	1-247-813-00	CARBON	180	5%	1/6W
R110	1-247-872-00	CARBON	51K	5%	1/6W
R111	1-247-840-00	CARBON	2.4K	5%	1/6W
R112	1-247-841-00	CARBON	2.7K	5%	1/6W
R113	1-247-839-00	CARBON	2.2K	5%	1/6W
R114	1-247-827-00	CARBON	680	5%	1/6W
R115	1-247-805-00	CARBON	82	5%	1/6W
R116	1-247-881-00	CARBON	120K	5%	1/6W
R117	1-247-840-00	CARBON	2.4K	5%	1/6W
R118	1-247-855-00	CARBON	10K	5%	1/6W
R119	1-247-843-00	CARBON	3.3K	5%	1/6W
R120	1-247-849-00	CARBON	5.6K	5%	1/6W
R121	1-247-811-00	CARBON	150	5%	1/6W
R122	1-247-823-00	CARBON	470	5%	1/6W
R123	1-247-858-00	CARBON	13K	5%	1/6W
R201	1-247-833-00	CARBON	1.2K	5%	1/6W
R202	1-247-831-00	CARBON	1K	5%	1/6W
R203	1-247-855-00	CARBON	10K	5%	1/6W
R204	1-247-815-00	CARBON	220	5%	1/6W
R205	1-247-899-00	CARBON	680K	5%	1/6W
R206	1-247-853-00	CARBON	8.2K	5%	1/6W
R207	1-247-823-00	CARBON	470	5%	1/6W
R208	1-247-867-00	CARBON	33K	5%	1/6W
R209	1-247-813-00	CARBON	180	5%	1/6W
R210	1-247-872-00	CARBON	51K	5%	1/6W
R211	1-247-840-00	CARBON	2.4K	5%	1/6W
R212	1-247-841-00	CARBON	2.7K	5%	1/6W
R213	1-247-839-00	CARBON	2.2K	5%	1/6W
R214	1-246-469-00	CARBON	680	5%	1/4W
R215	1-247-805-00	CARBON	82	5%	1/6W
R216	1-247-881-00	CARBON	120K	5%	1/6W
R217	1-247-840-00	CARBON	2.4K	5%	1/6W
R218	1-247-855-00	CARBON	10K	5%	1/6W
R219	1-247-843-00	CARBON	3.3K	5%	1/6W
R220	1-247-849-00	CARBON	5.6K	5%	1/6W
R221	1-247-811-00	CARBON	150	5%	1/6W
R222	1-247-823-00	CARBON	470	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R223	1-247-858-00	CARBON	13K	5%	1/6W
R301	1-247-827-00	CARBON	680	5%	1/6W
R302	1-247-811-00	CARBON	150	5%	1/6W
R303	1-247-835-00	CARBON	1.5K	5%	1/6W
R304	1-247-841-00	CARBON	2.7K	5%	1/6W
R305	1-247-819-00	CARBON	330	5%	1/6W
R306	1-211-697-00	CARBON	2.2M	10%	1/16W
R307	1-247-878-00	CARBON	91K	5%	1/6W
R308	1-247-875-00	CARBON	68K	5%	1/6W
R309	1-247-807-00	CARBON	100	5%	1/6W
R310	1-247-895-00	CARBON	470K	5%	1/6W
R311	1-247-185-00	CARBON	2.7	5%	1/2W F
R312	1-247-863-00	CARBON	22K	5%	1/6W
R313	1-247-815-00	CARBON	220	5%	1/6W
R314	1-247-821-00	CARBON	390	5%	1/6W
R315	1-247-767-00	CARBON	2.2	5%	1/6W
R316	1-247-767-00	CARBON	2.2	5%	1/6W
R317	1-247-831-00	CARBON	1K	5%	1/6W
R318	1-247-868-00	CARBON	36K	5%	1/6W
R319	1-247-850-00	CARBON	6.2K	5%	1/6W
R320	1-247-827-00	CARBON	680	5%	1/6W
RV301	1-228-169-00	RES, VAR, CARBON 10K/10K			
S301	1-554-425-00	SWITCH, SLIDE			
S302	1-554-123-00	SWITCH, SLIDE			
S303	1-554-123-00	SWITCH, SLIDE			
S304	1-554-024-00	SWITCH, LEAF			
SP901	1-503-221-00	SPEAKER			
T301	1-433-251-00	TRANSFORMER, BIAS OSCILLATOR			

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (Δ-ΔΔΔ-ΔΔΔ-XX or Δ-ΔΔΔΔ-ΔΔΔ-X) may be different from those used in the set.

CAPACITORS:
- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

RESISTORS
- All resistors are in ohms. Common 1/4W, 1/8W and 1/16W carbon resistors are omitted. Refer to the following lists for their part numbers.
- F : nonflammable

COILS
- MMH : mH, UH : μH

SEMICONDUCTORS
In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···, UPC···: μPC, UPD···: μPD···

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